IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Allen et al.

Serial No.: 10/540,371 Group Art Unit No.: 1625

Filed: 22 June 2005 Examiner: Not Yet Assigned

For: PYRAZOLO[3,4-b]PYRIDINE COMPOUNDS, AND THEIR USE AS

PHOSPHODIESTERASE INHIBITORS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

FILING OF A SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R.§1.97(b)

The attached list of citations on PTO Form 1449 is being submitted under the provisions of 37 CFR §1.56 and §1.97 for consideration by the United States Patent and Trademark Office, prior to the granting of this patent. Their inclusion herein should not, however, be construed as an admission that any particular cited document is effective prior art or that it discloses or renders obvious any aspect of the claimed invention. A copy of each cited document is enclosed, except U.S. Patent documents, and those references which are already part of the filewrapper. This statement is being filed within the time period specified in 37 CFR §1.97(b). No fee is required.

Respectfully submitted,

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Form PTO-1449	U.S. Department of Commerce	ATTY. DOCKET NO.	APPLICATION NO.
	Patent and Trademark Office		10/540,371
INFORMATION I	DISCLOSURE STATEMENT	APPLICANT	
		Allen et al.	
BY APPLICANT			
		FILING DATE	GROUP
(Use seve	ral sheets if necessary)	June 22, 2005	1625
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	US-3,755,340	Aug-73	Hoehn et al.			
	US-3,833,594	Sep-74	Hoehn et al. / E.R. Squibb & Sons, Inc.			
	US-3,833,598	Sep-74	Denzel et al.			
	US-3,840,546	Oct-74	Hoehn et al. / E.R. Squibb & Sons, Inc.			
	US-3,856,799	Dec-74	Hoehn et al. / E.R. Squibb & Sons, Inc.			
	US 3 925 388 A	Dec-75	Hoehn et al.			
	US-3,966,746	Jun-76	Hoehn et al. / E.R. Squibb & Sons, Inc.			
	US-3,979,399	Sep-76	Hoehn et al. / E.R. Squibb & Sons, Inc.			
	US-4,115,394	Sep-78	Hoehn, et al.			
	US-5,593,997	Jan-97	Dow, Koch and Schulte			
	US-2005/0043319	Feb-05	Schweighoffer and Guillet			
	US-2006/0089375A1	Apr-06	Allen, et al.			
	US-2006/0252790A1	Nov-06	Allen, et al.			
	US-2007/0111995A1	May-07	Allen, et al.			
	US 10/598973	Mar-05	Cook, et al.			
	US 10/598838	Mar-05	Christensen, IV			

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Trans	lation
					Yes	No
CA-1003419	Jan-77	Canada				
CH-553 799	Sep-74	Switzerland				
EP-0 076 035	Apr-83	EPC				
EP-0 180 318	May-86	EPC				
GB 141 7489	Dec-73	GB				
GB 151 1006	Apr-75	GB				
JP-2002-020386	Jan-02	Japan				
WO-00/15222	Mar-00	PCT				
WO-01/23389A2	Apr-01	PCT				
WO-01/44244A1	Jun-01	PCT				
WO-02/060900	Aug-02	PCT				
WO-02/081463	Oct-02	PCT				
WO-02/098878	Dec-02	PCT				
WO-03/016563	Feb-03	PCT				
WO-04/056823A1	Jul-04	PCT				
WO-04/024728A2	Mar-04	PCT				
WO-2005/058892	Jun-05	PCT				
WO-2005/090348	Sep-05	PCT				
WO-2005/090353	Sep-05	PCT				
WO-2005/090354	Sep-05	PCT				

Application No.: 10/540,371 Filing Date: 22 June 2005

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	BARE T.M. ET AL.; Synthesis and structure-activity relationships of a series of anxioselective
	pyrazolopyridine ester and amide anxiolytic agents; Journal of Medicinal Chemistry; 1989; 32; pages
	2561-2573
	BEER B., ET AL.; "Enhancement of 3H-diazepam binding by SQ 65,396: a novel anti-anxiety agent";
	Pharmacology Biochemistry & Behaviour; 1978; 9; pp. 849-851
	BONDAVALLI F. ET AL; Synthesis, molecular modelling studies, and pharmacological activity of
	selective A1 receptor antagonists; Journal of Medicinal Chemistry; 2002; 45(22); pages 4875-4887
	CHAKRAVORTI; Synthesis of Some Isoquinolylpyrazolo[3,4-b]pyridine Derivates as Possible
	Antifilarial Agents; Indian J. Chem.; February 1978; Vol. 16B, pp. 161-163
	CHASIN M., ET AL.; "1-Ethyl-4-(isopropylidenehydrazino)-1H-pyrazolo-(3,4-b)-pyridine-5-carboxylic
	acid, ethyl ester, hydrochloride (SQ 20009) - a potent new inhibitor of cyclic 3',5'-nucleotide
	phosphodiesterases"; Biochemical Pharmacology; 1972; 21; pp. 2443-2450
	CHEMICAL ABSTRACTS REGISTRY – CAS registry number 502143-17-1 which has the laboratory
	code NSC 235755, 8th April 2003.
	DALY J. W. ET AL.; 1-methyl-4-substituted-1H-pyrazolo [3, 4-b] pyridine-5-carboxylic acid derivatives:
	effect of structural alterations on activity at A1 and A2 adenosine receptors; Medicinal Chemistry
	Research; 1994; 4(5); pages 293-306; Birkhaeuser; Boston US
 	DAVIS A., ET AL.,; "Strategic approaches to drug design. II. Modelling studies on phosphodiesterase
	substrates and inhibitors"; Journal of Computer-Aided Molecular Design; 1987; 1; pp. 97-119
	DE MELLO, A. ECHEVARRIA, ET AL.; Antileishmanial Pyrazolopyridine Derivatives: Synthesis and
	Structure-Activity Relationship Analysis; Journal of Medicinal Chemistry; 2004; 47(22); pages 5427-
	5432
	DENZEL TH.; (translation of title: NEW SYNTHESIS OF 1-UNSUBSTITUTED 1H-PYRAZOLO [3.4-b]
	PYRIDINE-5-CARBOXYLIC ACID ESTERS); Archiv der Pharmazie; 1974; 307(3); pages 177-186
	GIEMBYCZ M.A.; Phosphodiesterase 4 Inhibitors and the Treatment of Asthma: Where Are We Now
	and Where Do We Go from Here?; Drugs; 2000; 59(2); pages 193-212
	GLASS II, W. F., ET AL.; "Inhibition of human lung cyclic GMP and cyclic AMP phosphodiesterases
	by certain nucleosides, nucleotides, and pharmacological phosphodiesterase inhibitors"; Biochemical
	Pharmacology; 1979; 28; pp. 1107-1112
	HOEHN H. ET AL.; 1H-pyrazolo[3,4-b]pyridines; Journal of Heterocyclic Chemistry; 1972; 9(2); pages
	235-253
	HOHN H ET AL: "Potential Antidiabetic Agents. Pyrazolo63,4-b!pyridinesW JOURNAL OF
	MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 16, no. 12,
	1973, pages 1340-1346, XP002097814 ISSN: 0022-2623 page 1343; compound 37
	HOROWITZ Z. P., ET AL.; "Cyclic AMP and anxiety"; Psychosomatics; 1972; vol. XIII, no. 2; pp. 85-
	92
	KRIPALANI K. J. ET AL.; "Biotransformation in the monkey of cartazolate (SQ 65,396), a substituted
	pyrazolopyridine having anxiolytic activity"; Xenobiotica; 1981; 11(7); pp. 481-488
 	OCHIAI H. ET AL.; Discovery of new orally active phosphodiesterase (PDE4) inhibitors; Chem.
	Pharm. Bull.; 2004 (stated to have been published online 15 June 2004); 52(9); pages 1098-1104
	OCHIAI H. ET AL.; Bioorg. Med. Chem. Web Release; 2003
 	OCHIAI H. ET AL.; New orally active PDE4 inhibitors with therapeutic potential; Bioorg. Med. Chem.;
—	2004 (stated to have been available online 20 June 2004); 12(15); pages 4089-4100
	OCHIAI H. ET AL.; New orally active PDE4 inhibitors with therapeutic potential; Bioorg. Med. Chem.
	Lett.; 5th Jan 2004 issue (available as "articles in press" version on or before 4th December 2003,
	possibly October 2003, via internet); 14(1); pages 29-32
	PATEL J.B. AND MALICK J.B.; Pharmacological properties of tracazolate: a new non-benzodiazepine
	anxiolytic agent; Eur. J. Pharmacol.; 1982; 78; pages 323-333
	PATEL J.B., ET AL.; "Pharmacology of pyrazolopyridines"; Pharmacology Biochemistry & Behaviour;
	1985; vol. 23; pp. 675-680
	POLSON J. B., ET AL.; "Analysis of the relationship between pharmacological inhibition of cyclic
	nucleotide phosphodiesterase and relaxation of canine tracheal smooth muscle"; Biochemical
	Pharmacology; 1979; 28; pp. 1391-1395
	Filalinacology, 1979, 20, pp. 1091-1090

Application No.: 10/540,371 Filing Date: 22 June 2005

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	RBI 1998, Catalogue no. T-112, Tracazolate"; 1998; page 340 SABITHA, ET AL.; A Facile Route to Pyrazolo[3,4-b]Pyridines and [1]Benzopyrano[4',3'-e]Pyrazolo[3,4-b]Pyridines; Indian Institute of Chemical Technology; 1999; 29(4),655-665; Synthetic			
	Communications; India			
	SCHENONE S. ET AL.; Synthesis and biological data of 4-amino-1-(2-chloro-2-phenylethyl)-1H-pyrazolo[3,4-b]pyridine-5-carboxylic acid ethyl esters, a new series of A1-adenosine receptor (A1AR) ligands; Bioorg. Med. Chem. Lett.; 2001; 11; pages 2529-2531			
	SHI D., ET AL.; Pyrazolopyridines: effect of structural alterations on activity at adenosine- and GABA-A receptors; Drug Development Research; 1997; 42; pages 41-56			
	WEINRYB I., ET AL.; "Studies in vitro and in vivo with SQ-20,009: an inhibitor of cyclic nucleoside phosphodiesterase with central nervous system activity"; Excerpta Med. Int. Congr. Ser.; 1975; 359; pp. 857-865			
	YU G., MASON H.J., ET. AL.; Substituted pyrazolopyridines as potent and selective PDE5 inhibitors: potential agents for treatment of erectile disfunction; Journal of Medicinal Chemistry; 2001; 44; pages 1025-1027			
EXAMINER	DATE CONSIDERED			

•EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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